

Notice of Allowability

Application No.

10/053,904

Examiner

Ronald Baum

Applicant(s)

CARR, JEFFREY D.

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/14/06.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

NASSER MOAZZAMI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

10/26/06

DETAILED ACTION

Examiner's Statement of Reasons for Allowance

1. Claims 1-24 are allowed over prior art.
2. This action is in reply to applicant's correspondence of 14 August 2006.
3. The following is an examiner's statement of reasons for the indication of allowable claimed subject matter.
4. As per claims 1,2 and 16 generally, prior art of record, Ellington et al, U.S. Patent 6,708,218 B1, fails to teach alone, or in combination, other than via hindsight, at the time of the invention, the features as discussed and remarked upon in the response of 8/14/2006 to office action of 4/13/2006.

Specifically, (as per claim 1, for example) prior art dealing with Ipsec security via various inter and intra segment/layer application of security protocols/security policy segmentation schemas, and associated serial processing aspects, is generally known to exist, (i.e., Zhang, Yongguang, 'A Multi-Layer IP Security Protocol for TCP Performance Enhancement in Wireless Networks' IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 2004, entire document, <http://www.cse.psu.edu/~gcao/teach/514/jsac04.pdf>). Nowhere in the prior art is found collectively the *italicized* claim elements (i.e., ***parallel*** processing at a *layer basis* using ***distinct*** security *policies/protocols* and said parallel processing is at least a function of sufficient information uncovered during at least the first layer protocol/policy processing), at the time of the invention; serving to patentably distinguish the invention from said prior art;

Art Unit: 2136

“1. A method of processing a packet having a plurality of layers wherein a first layer is structured in accordance with a first protocol and a second layer is structured in accordance with a second protocol, comprising:

processing the first layer of the packet in accordance with

the first protocol and

a first security policy; and

processing the second layer of the packet in accordance with

the second protocol and

a second security policy

at least partially in parallel with

processing of the first layer of the packet when

processing of the first layer of the packet uncovers

sufficient information to support security processing of

the second layer of the packet.”

5. Dependent claims 3-15, 17-24 are allowable by virtue of their dependencies.

Art Unit: 2136

Conclusion

6. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose unofficial Fax number is (571) 273-3861 and unofficial email is Ronald.baum@uspto.gov. The examiner can normally be reached Monday through Thursday from 8:00 AM to 5:30 PM.

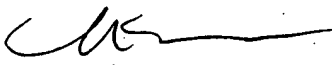
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami, can be reached at (571) 272-4195. The Fax number for the organization where this application is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. For more information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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TECHNOLOGY CENTER 2100

Ronald Baum

Patent Examiner


10/26/06